Improved Navy Lighterage System

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Project Goals

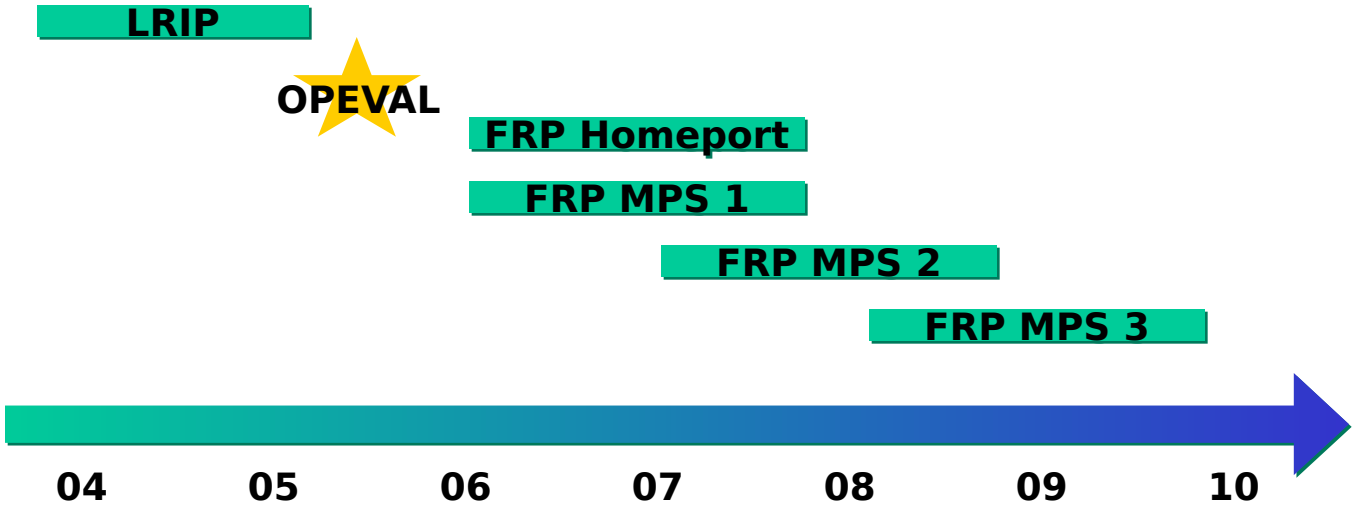
- Improve throughput for in-stream cargo discharge
- Replace Navy Lighterage on the MPF ships
- Maintain capability until Seabase is designed

Description

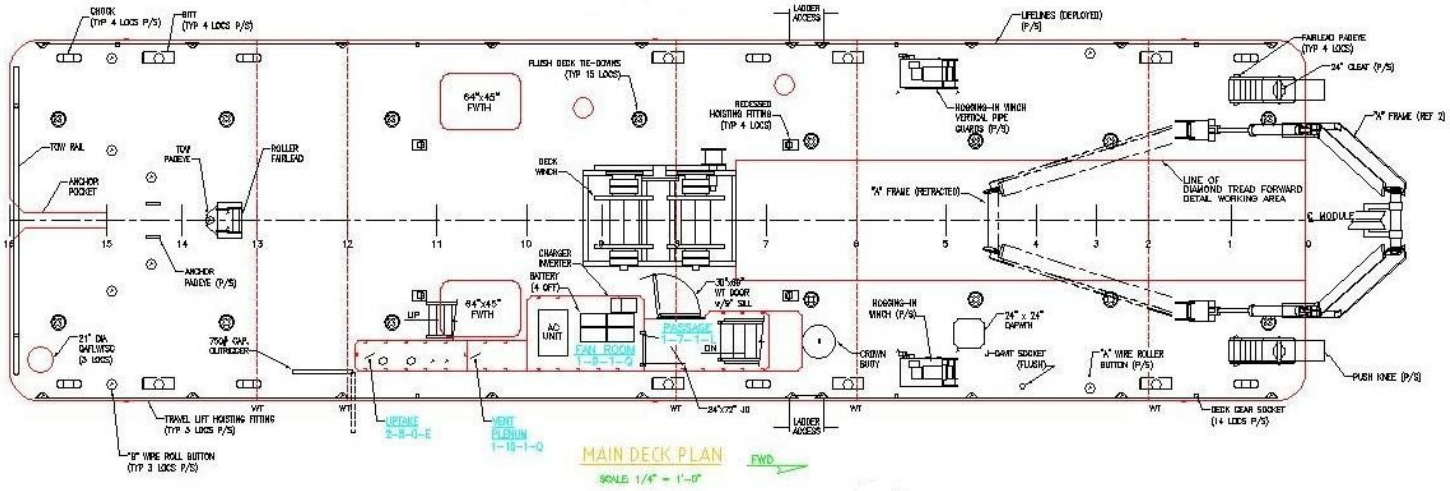
- 300 barge sections
- Flexible and rigid connectors
- Higher freeboard
- Modern technology
- State of the art machinery
- Automation of connection systems
- Automation of bow ramps
- Extensive deck jewelry

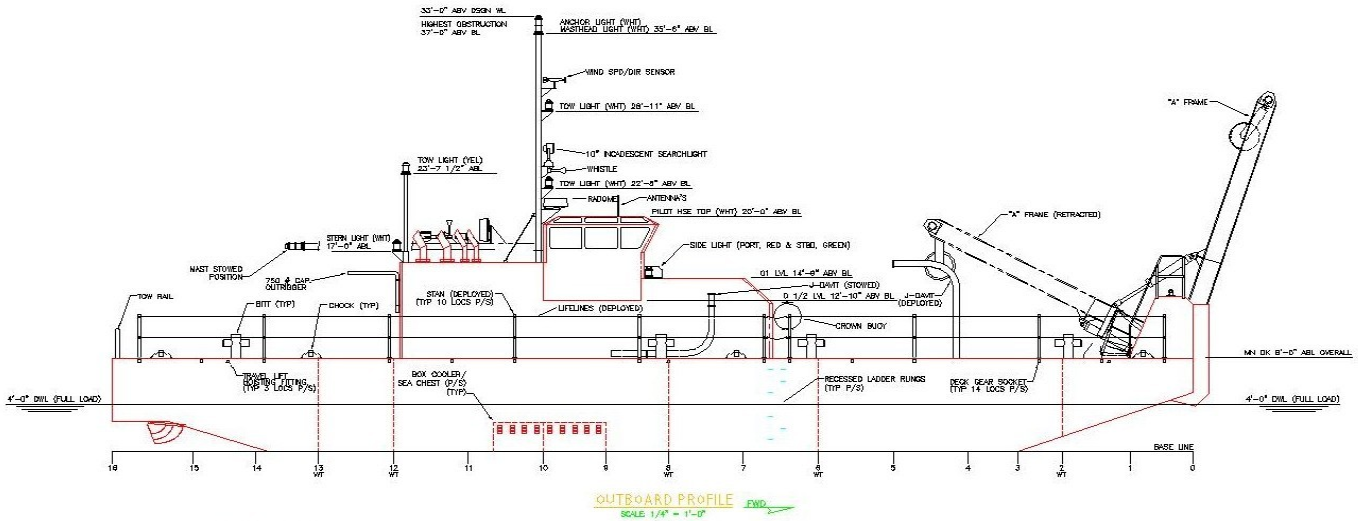
Schedule

- Barge contract awarded to Marinette Marine
- Side Connector contract awarded to Oldenburg Lake Shore
- Production design nearing completion
- Major components on order

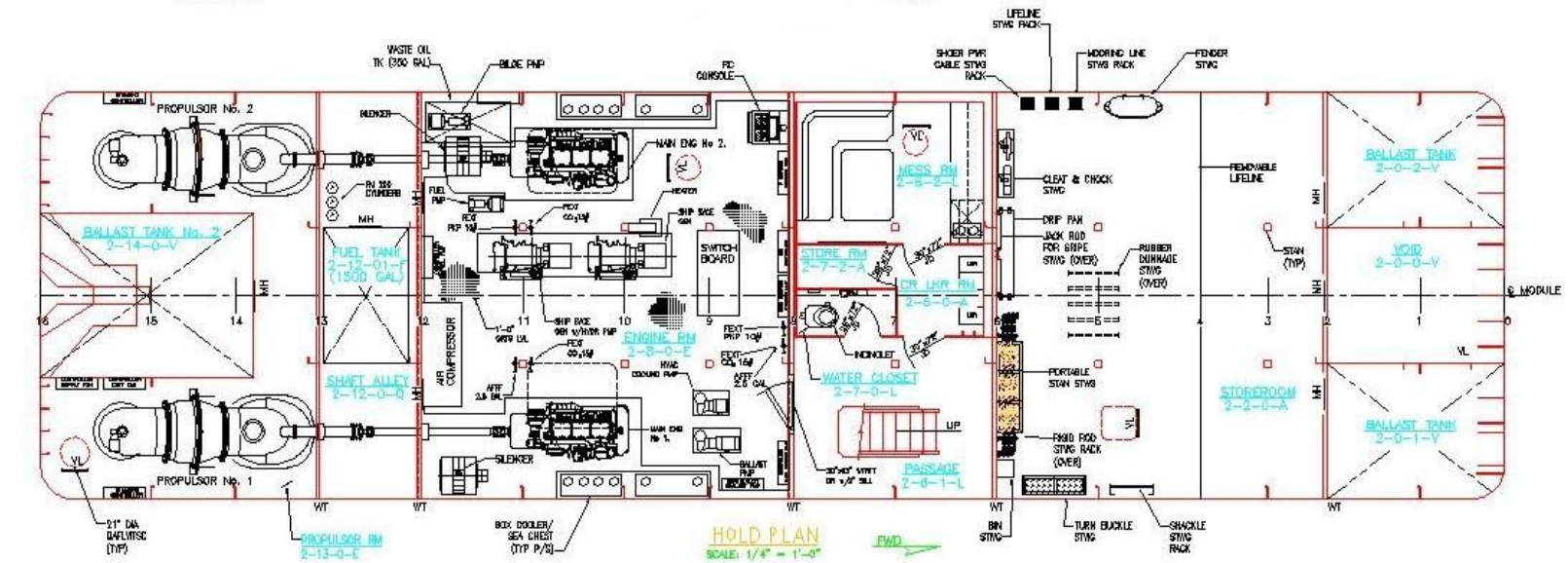


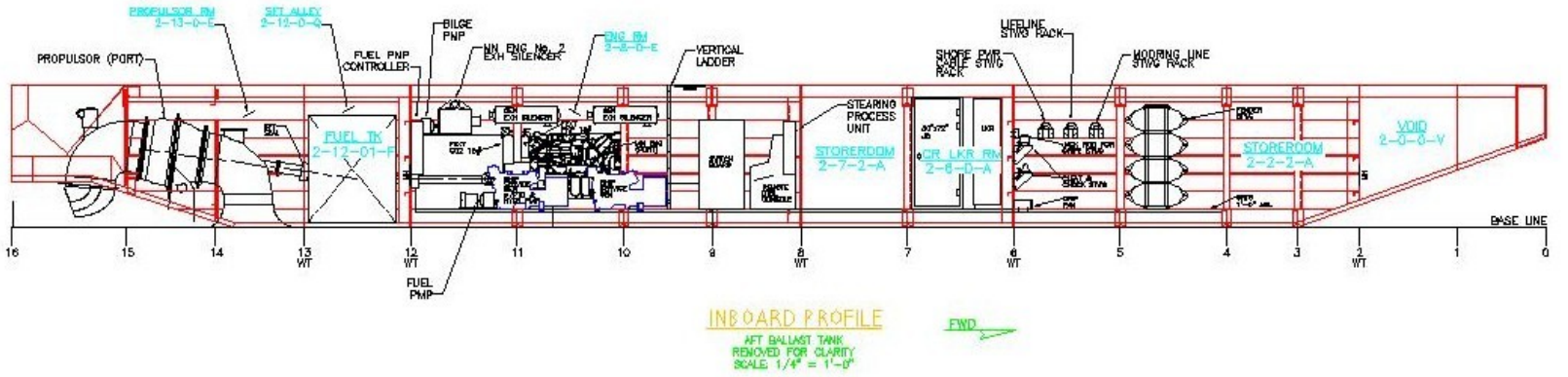
Warping Tug Current Design



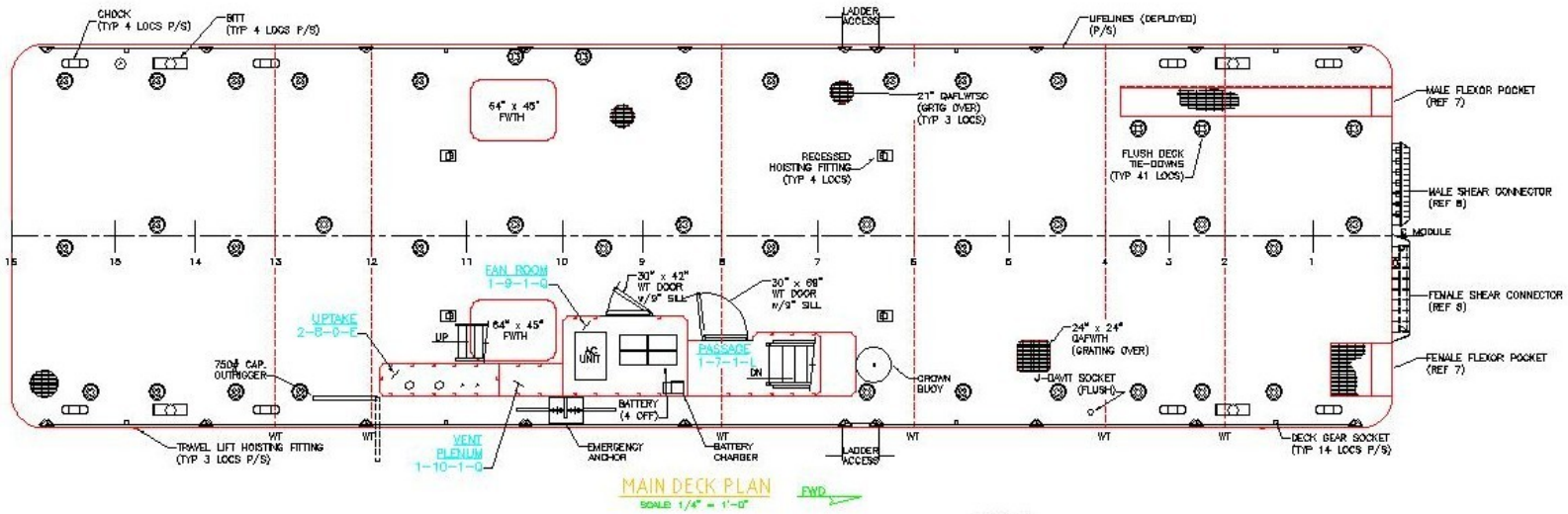


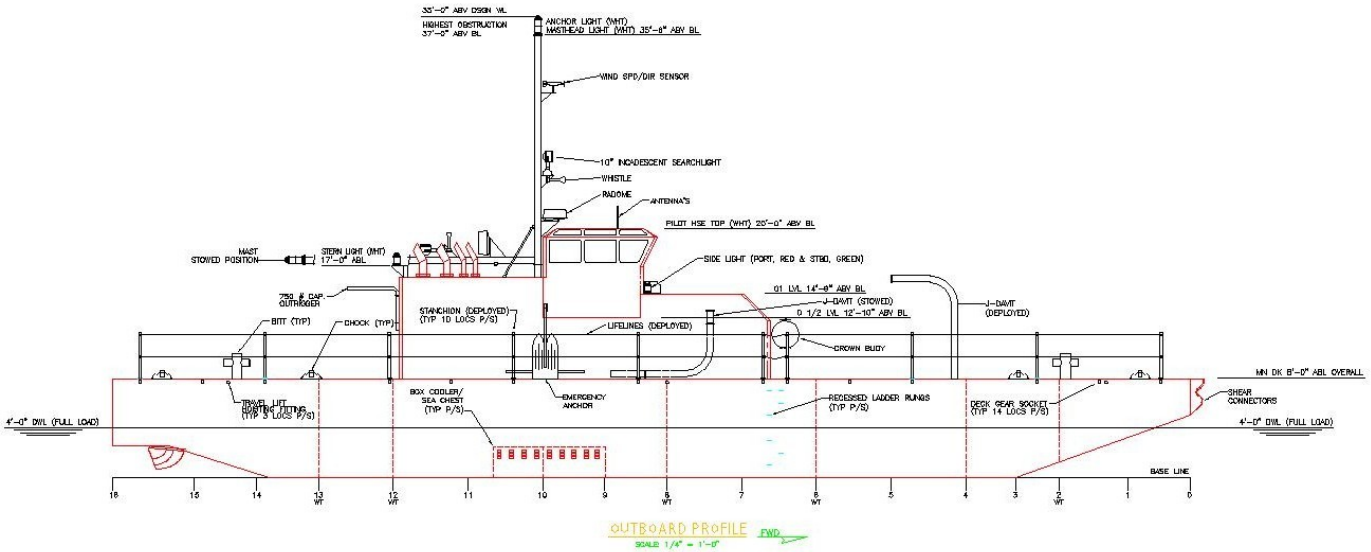
Warping Tug Current Design Inboard





Causeway Ferry Power Module Current Design





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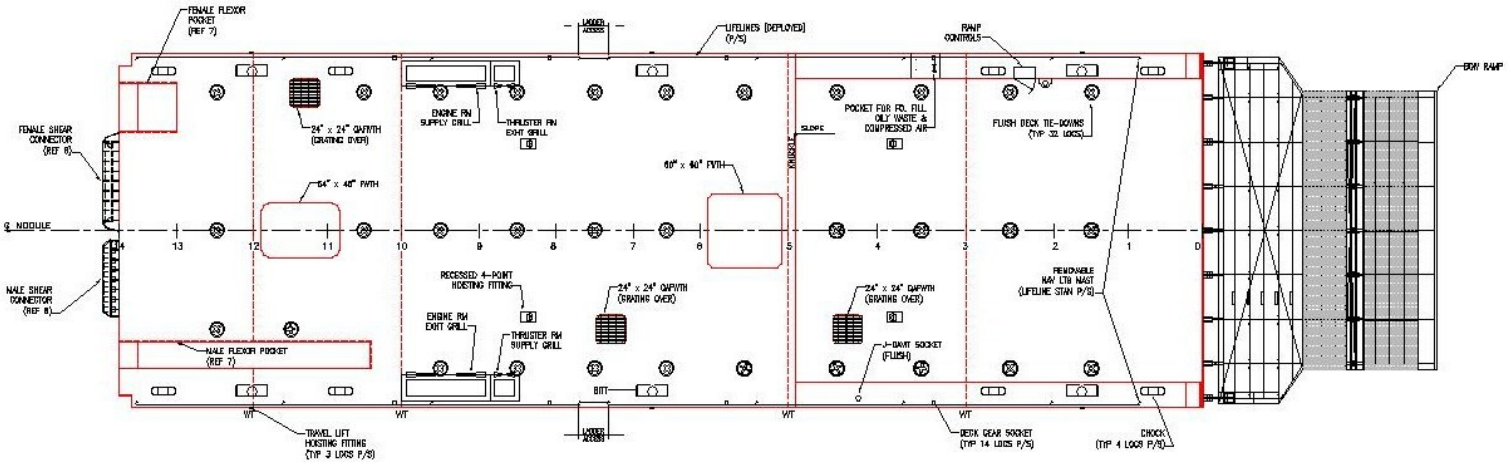
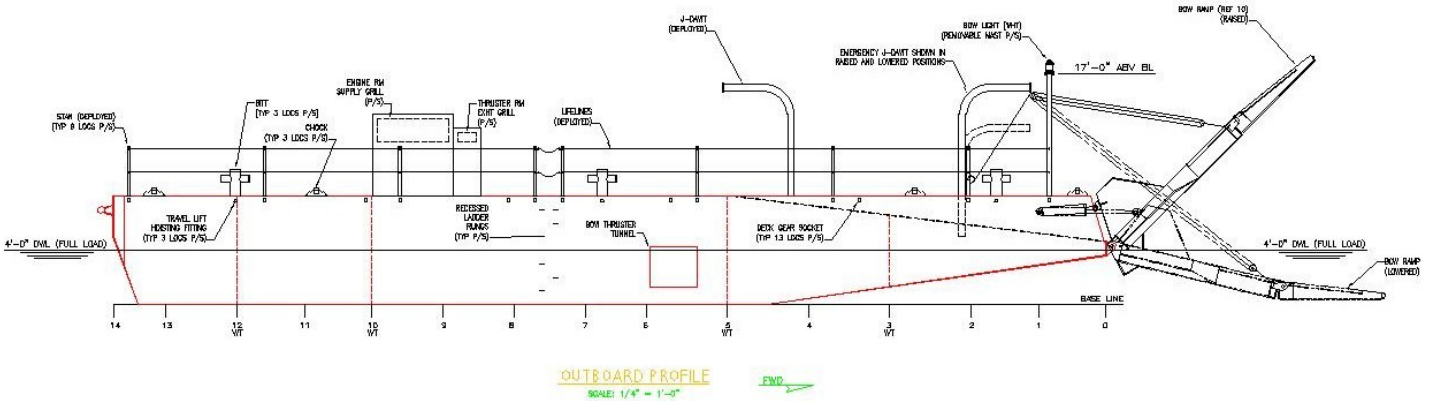
Beaching Module Current Design


MAIN DECK PLAN
SCALE: 1/4" = 1'-0"
FWD
FEMALE FLEXOR POCKET (REF 7)
FEMALE SHEAR CONNECTOR (REF 6)
MALE SHEAR CONNECTOR (REF 6)
MALE FLEXOR POCKET (REF 7)
LADDER ACCESS
LIFELINES (DEPLOYED) (P/S)
RAMP CONTROLS
BOW RAMP
24" x 24" CAPATH (GRATING OVER)
64" x 48" PATH
ENGINE RM SUPPLY GRILL
THRUSTER RM EXIT GRILL
SLOPE
POCKET FOR FD, FILL, OILY WASTE & COMPRESSED AIR
FLUSH DECK TIE-DOWNS (TYP 32 LOCS)
40" x 40" PATH
RECESSED 4-POINT HOISTING FITTING
ENGINE RM EXIT GRILL
THRUSTER RM SUPPLY GRILL
J-DAVIT SOCKET (FLUSH)
REMOVABLE NAV LTR MAST (LIFELINE STAN P/S)
BITT
TRAVEL LIFT HOISTING FITTING (TYP 3 LOCS P/S)
DECK GEAR SOCKET (TYP 14 LOCS P/S)
CHOCK (TYP 4 LOCS P/S)
WT


OUTBOARD PROFILE
SCALE: 1/4" = 1'-0"
FWD
J-DAVIT (DEPLOYED)
BOW LIGHT (WHT) (REMOVABLE MAST P/S)
EMERGENCY J-DAVIT SHOWN IN RAISED AND LOWERED POSITIONS
17'-0" ABV BL
BOW RAMP (REF 10) (RAISED)
STAN (DEPLOYED) (TYP 8 LOCS P/S)
BITT (TYP 3 LOCS P/S)
CHOCK (TYP 3 LOCS P/S)
ENGINE RM SUPPLY GRILL (P/S)
THRUSTER RM EXIT GRILL (P/S)
LIFELINES (DEPLOYED)
TRAVEL LIFT HOISTING FITTING (TYP 3 LOCS P/S)
RECESSED LADDER RUNGS (TYP P/S)
BOW THRUSTER TUNNEL
DECK GEAR SOCKET (TYP 13 LOCS P/S)
4'-0" DWL (FULL LOAD)
BOW RAMP (LOWERED)
BASE LINE
WT

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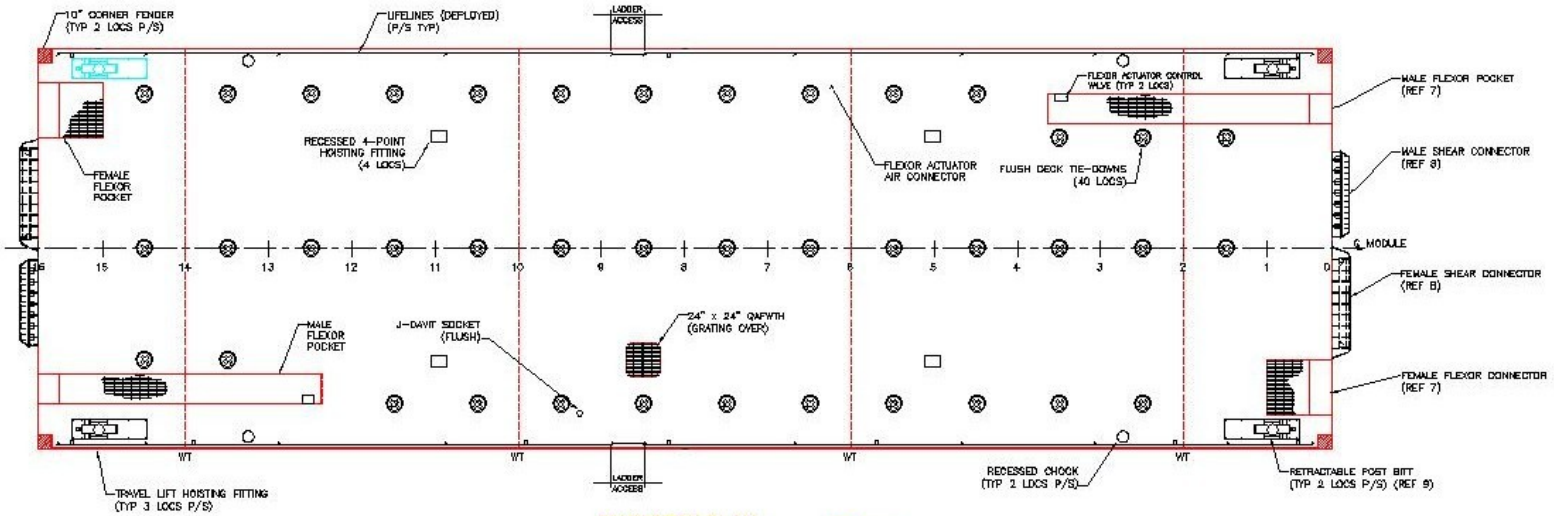
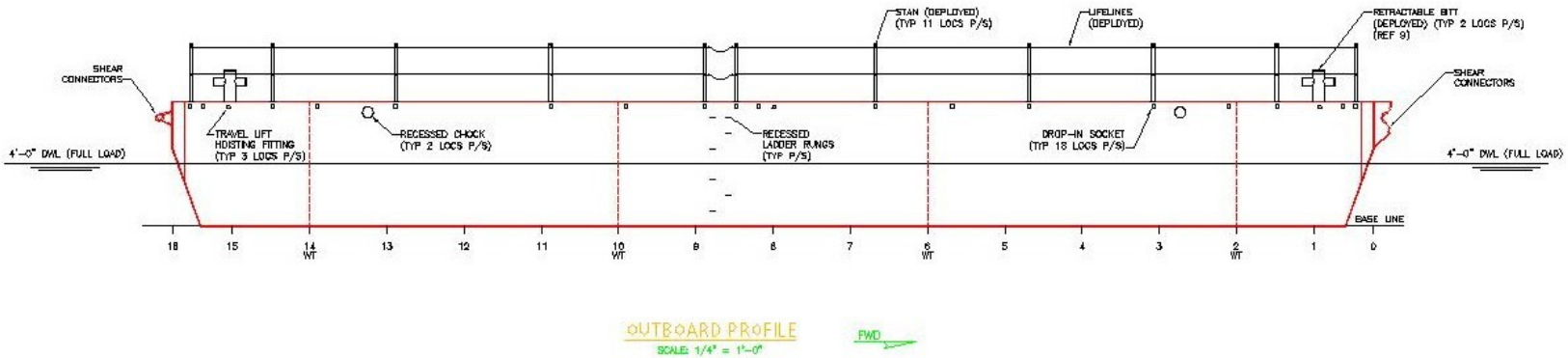
Intermediate Module Current Design


10" CORNER FENDER (TYP 2 LOCS P/S)
LIFELINES (DEPLOYED) (P/S TYP)
LADDER ACCESS
FLEXOR ACTUATOR CONTROL VALVE (TYP 2 LOCS)
MALE FLEXOR POCKET (REF 7)
RECESSED 4-POINT HOISTING FITTING (4 LOCS)
FLEXOR ACTUATOR AIR CONNECTOR
FLUSH DECK TIE-DOWNS (40 LOCS)
MALE SHEAR CONNECTOR (REF 8)
FEMALE FLEXOR POCKET
℄ MODULE
FEMALE SHEAR CONNECTOR (REF 8)
MALE FLEXOR POCKET
J-DAVIT SOCKET (FLUSH)
24" x 24" QAFWTH (GRATING OVER)
FEMALE FLEXOR CONNECTOR (REF 7)
WT
RECESSED CHOCK (TYP 2 LOCS P/S)
RETRACTABLE POST BITT (TYP 2 LOCS P/S) (REF 9)
TRAVEL LIFT HOISTING FITTING (TYP 3 LOCS P/S)
MAIN DECK PLAN
SCALE: 1/4" = 1'-0"
FWD


STAN (DEPLOYED) (TYP 11 LOCS P/S)
LIFELINES (DEPLOYED)
RETRACTABLE BITT (DEPLOYED) (TYP 2 LOCS P/S) (REF 9)
SHEAR CONNECTORS
SHEAR CONNECTORS
TRAVEL LIFT HOISTING FITTING (TYP 3 LOCS P/S)
RECESSED CHOCK (TYP 2 LOCS P/S)
RECESSED LADDER RUNGS (TYP P/S)
DROP-IN SOCKET (TYP 18 LOCS P/S)
4'-0" DWL (FULL LOAD)
4'-0" DWL (FULL LOAD)
BASE LINE
WT
OUTBOARD PROFILE
SCALE: 1/4" = 1'-0"
FWD

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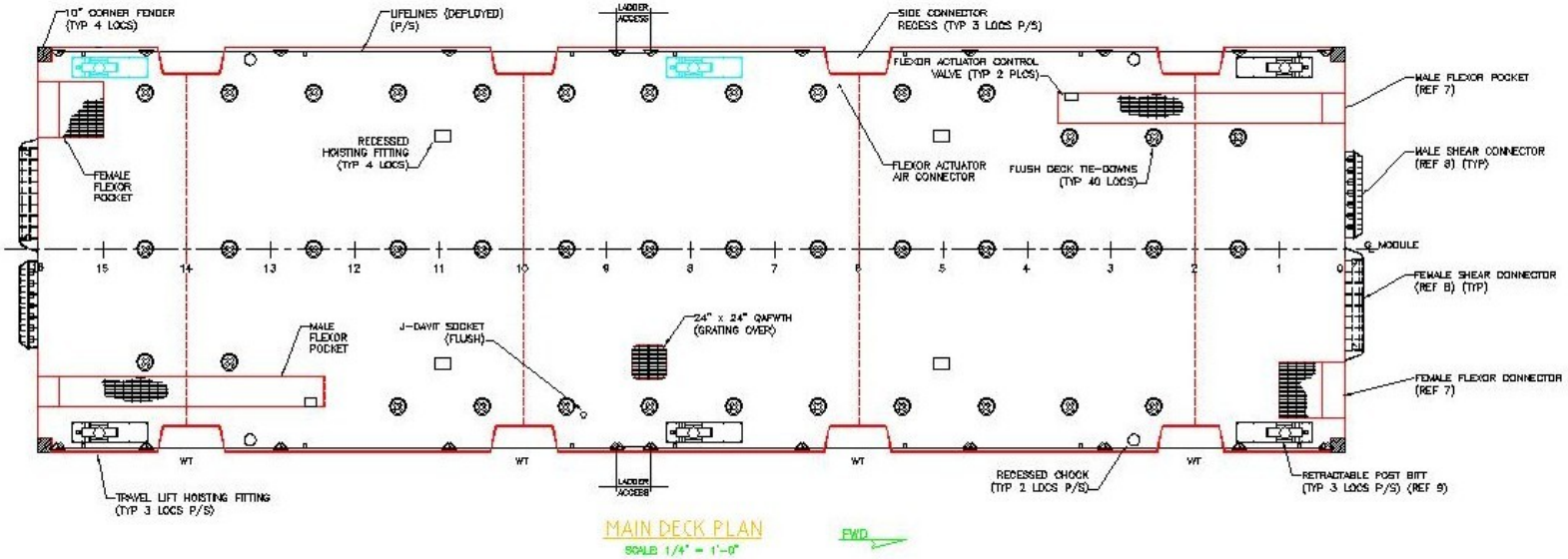
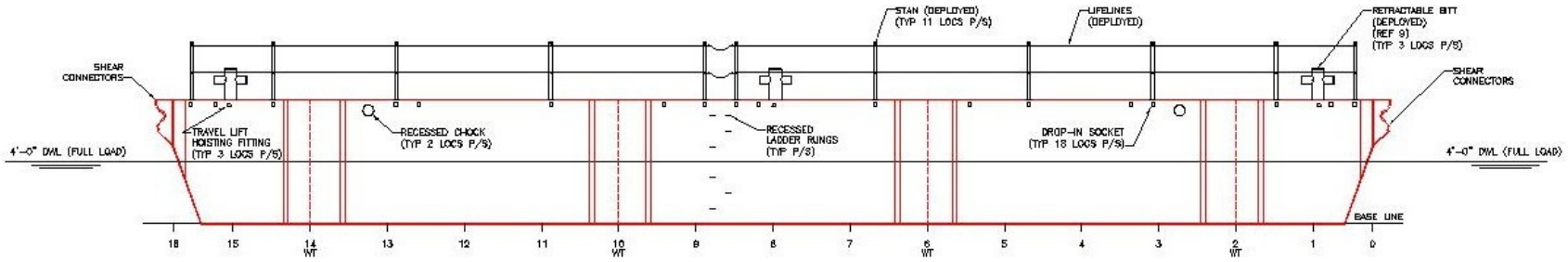
Combination Module Current Design


10" CORNER FENDER (TYP 4 LOCS)
LIFELINES (DEPLOYED) (P/S)
LADDER ACCESS
SIDE CONNECTOR RECESS (TYP 3 LOCS P/S)
FLEXOR ACTUATOR CONTROL VALVE (TYP 2 PLCS)
MALE FLEXOR POCKET (REF 7)
RECESSED HOISTING FITTING (TYP 4 LOCS)
FEMALE FLEXOR POCKET
FLEXOR ACTUATOR AIR CONNECTOR
FLUSH DECK TIE-DOWNS (TYP 40 LOCS)
MALE SHEAR CONNECTOR (REF 8) (TYP)
℄ MODULE
FEMALE SHEAR CONNECTOR (REF 8) (TYP)
MALE FLEXOR POCKET
J-DAVIT SOCKET (FLUSH)
24" x 24" OAFWTH (GRATING OVER)
FEMALE FLEXOR CONNECTOR (REF 7)
WT
TRAVEL LIFT HOISTING FITTING (TYP 3 LOCS P/S)
RECESSED CHOCK (TYP 2 LOCS P/S)
RETRACTABLE POST BITT (TYP 3 LOCS P/S) (REF 9)
MAIN DECK PLAN
SCALE 1/4" = 1'-0"
FWD


STAN (DEPLOYED) (TYP 11 LOCS P/S)
LIFELINES (DEPLOYED)
RETRACTABLE BITT (DEPLOYED) (REF 9) (TYP 3 LOCS P/S)
SHEAR CONNECTORS
SHEAR CONNECTORS
TRAVEL LIFT HOISTING FITTING (TYP 3 LOCS P/S)
RECESSED CHOCK (TYP 2 LOCS P/S)
RECESSED LADDER RUNGS (TYP P/S)
DROP-IN SOCKET (TYP 18 LOCS P/S)
4'-0" DWL (FULL LOAD)
4'-0" DWL (FULL LOAD)
BASE LINE
WT
OUTBOARD PROFILE
SCALE: 1/4" = 1'-0"
FWD